

Abstract

A single layer sound insulated door assembly, and automatically releasing latch to open the door assembly in response to predetermined indicators of fire in the structure and a labyrinthine seal mechanism which limits sound transmission through the door assembly. An acoustical smoke vent is sound insulated and the doors are sealed to the curb by means of a unique labyrinthine gasket assembly effective at limiting sound transmission through the vent. The acoustical smoke vent of the present invention achieves a sound transmission class of STC 45 or better without the need for double layer door assemblies.